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77%



Volker Gaede , Oliver Günther

ACM Computing Surveys (CSUR) June 1998

Volume 30 Issue 2

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain a given search point) and the region query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

2 [Minimizing queuing delays and number of messages in mobile phone location](#)

77%



David Goodman , P. Krishnan , Binay Sugla


Mobile Networks and Applications August 1996

Volume 1 Issue 1

The mobility of phones in a cellular or Personal Communication Services (PCS) environment introduces the prob- lem of efficiently locating the called phone. In this paper, we present an analysis of the delay and number of messages transmitted in different sequential and parallel search strategies, considering for the first time the issue of queuing on radio paging channels. Our analysis shows that parallel search may not reduce the time to find a mobile phone if the parameters of the system ...


3 [Cyberguide: a mobile context-aware tour guide](#)

77%

-  Gregory D. Abowd , Christopher G. Atkeson , Jason Hong , Sue Long , Rob Kooper , Mike Pinkerton
Wireless Networks October 1997
Volume 3 Issue 5
Future computing environments will free the user from the constraints of the desktop. Applications for a mobile environment should take advantage of contextual information, such as position, to offer greater services to the user. In this paper, we present the Cyberguide project, in which we are building prototypes of a mobile context-aware tour guide. Knowledge of the user's current location, as well as a history of past locations, are used to provide more of the kind of services that we co ...


4 Machine interpretation of CAD data for manufacturing applications

77%

-  Qiang Ji , Michael M. Marefat
ACM Computing Surveys (CSUR) September 1997
Volume 29 Issue 3
Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...


5 Programming languages for mobile code

77%

-  Tommy Thorn
ACM Computing Surveys (CSUR) September 1997
Volume 29 Issue 3
Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...


6 Foundations of multimedia database systems






77%


-  Sherry Marcus , V. S. Subrahmanian
Journal of the ACM (JACM) May 1996
Volume 43 Issue 3
Though numerous multimedia systems exist in the commercial market today, relatively little work has been done on developing the mathematical foundation of multimedia technology. We attempt to take some initial steps towards the development of a theoretical basis for a multimedia information system. To do so, we develop the notion of a structured multimedia database system. We begin by defining a mathematical model of a media-instance. A media-instance may be thought of as "glue"; ...

7 Strategic directions in electronic commerce and digital libraries: towards a digital agora

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-  Nabil Adam , Yelena Yesha
ACM Computing Surveys (CSUR) December 1996
Volume 28 Issue 4

- 8 Strategic directions in human-computer interaction 77%
 Brad Myers , Jim Hollan , Isabel Cruz , Steve Bryson , Dick Bulterman , Tiziana Catarci , Wayne Citrin , Ephraim Glinert , Jonathan Grudin , Yannis Ioannidis
ACM Computing Surveys (CSUR) December 1996
Volume 28 Issue 4
- 9 Strategic directions in computational geometry 77%
 Roberto Tamassia
ACM Computing Surveys (CSUR) December 1996
Volume 28 Issue 4
- 10 Object orientation in multidatabase systems 77%
 Evaggelia Pitoura , Omran Bukhres , Ahmed Elmagarmid
ACM Computing Surveys (CSUR) June 1995
Volume 27 Issue 2
A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...
- 11 Query evaluation techniques for large databases 77%
 Goetz Graefe
ACM Computing Surveys (CSUR) June 1993
Volume 25 Issue 2
Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...
- 12 Technique for automatically correcting words in text 77%
 Karen Kukich
ACM Computing Surveys (CSUR) December 1992
Volume 24 Issue 4
Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...
- 13 Fast image retrieval using color-spatial information 77%

-  Beng Chin Ooi , Kian-Lee Tan , Tat Seng Chua , Wynne Hsu
The VLDB Journal — The International Journal on Very Large Data Bases May 1998
Volume 7 Issue 2
In this paper, we present an image retrieval system that employs both the color and spatial information of images to facilitate the retrieval process. The basic unit used in our technique is a *single-colored cluster*, which bounds a homogeneous region of that color in an image. Two clusters from two images are similar if they are of the same color and overlap in the image space. The number of clusters that can be extracted from an image can be very large, and it affects the accuracy of ret ...

14 [Advanced drawing tools aid network planning](#)

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-  Nathan J. Muller
International Journal of Network Management November 1997
Volume 7 Issue 6
Network administrators can facilitate managing large, complex networks by using diagramming solutions. This article describes and discusses a variety of tools that are available to aid the design process. © 1997 John Wiley & Sons, Ltd.

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